

# SONY®

## Audio Monitor Speaker **AMS-100**



*Sony has considerable experience in designing products which are used around the world at broadcast and post-production facilities, in mobile production units (outside broadcast vehicles) and for industrial video applications. With the benefit of this broad knowledge, Sony now introduces the AMS-100 Audio Monitor Speaker.*

*Monitor speakers are installed in many different turnkey systems, and the predecessor of this new speaker has been widely used and well*

# AMS-100 Audio Monitor Speaker

## Analog/Digital Input Capability

Inputs are configured with optional modules; the BKAM-101 (Analog), BKAM-102 (AES/EBU), and BKAM-103 (SDI with embedded audio) modules. You can select up to two input modules in any combination according to your system requirements.

## Input Selection up to 32 channels

Selection of which channel of audio signal to be monitored is easily accessible from the front panel input select switch. Two of the four channels can be selected when two analog or AES/EBU audio options are installed and two of the 32 channels when two SDI options are installed.



## Input Selection Using External Equipment

Selection of the audio signal can be controlled by both the input select switches on the front panel and external equipment via the remote connector on the rear panel.

## Monitoring through Headphones and External Equipment

In addition to the built-in speaker, monitored signals are output to the headphone connector, the remote connector which enables monitoring on external audio systems. For monitoring via headphones, an independent volume control is provided. Audio levels can also be monitored via the front panel LED VU meters.

## Magnetic Shielding

Careful attention to loud speaker selection allows side-by-side installation with picture monitors and other units.

## Compact 1RU Size, 19-inch Rack-mountable Unit

## 100 to 240 V AC Operation with Automatic Switching



*proven in installations since 1985. Additional advantages of the AMS-100 are a convenient, compact 1RU size, the choice of analog, AES/EBU and SDI with embedded audio inputs, and many other enhancements, all at an extremely affordable price.*

*Integrating the AMS-100 into your installations is sure to deliver maximum benefits, with high quality, reliability and system versatility.*

## BKAM-101 Analog Module

### Flexible Integration

Input and loop-through connectors are provided for flexible systems integration.

### Selectable Input Level/Impedance

The input level can be chosen from +4 dBm or 0 dBm. Input impedance can be selected from 600  $\Omega$  or 10 k $\Omega$ , balanced.



## BKAM-102 AES/EBU Module

### XLR/BNC Input Connectors

Both XLR and BNC connectors are provided for more flexible system connections.



## BKAM-103 SDI Module

### Embedded Audio Monitoring

You can monitor any channel, or two of 16 channels (4:2:2 component), or two of four channels (4fsc NTSC composite) on a single unit.

In addition to the input of an SDI signal with embedded audio, a re-clocked signal is output through a second BNC connector.



# Specifications

Inputs/Outputs	
Analog Input (BKAM-101):	2ch, +4 or 0 dBm (at 600 $\Omega$ termination), +24 dBm max., balanced, 600 $\Omega$ or 10 k $\Omega$ , XLR-3-31 (x2) or XLR-3-32 (x2)
AES/EBU Input (BKAM-102):	2ch, 110 $\Omega$ , balanced, XLR-3-31 (x1) or 75 $\Omega$ , unbalanced, BNC type (x1)
SDI Input (BKAM-103):	75 $\Omega$ , unbalanced, BNC type (x1), SMPTE259M 4:2:2 component: up to 16ch 4fsc NTSC composite: up to 4ch
Parallel Remote Control Interface:	TTL level, D-sub 25P (x1)
Monitor Output (via Remote Connector):	2ch, +4 dBm, +24 dBm max., 600 $\Omega$
Built-in Speaker Output:	2 W + 2 W
Headphone Output:	-12 dBu at 8 $\Omega$
SDI Throughout (BKAM-103):	75 $\Omega$ , unbalanced, BNC type (x1) (Buffered out)

Audio Characteristics (via Remote Connector)	
Frequency Response:	20 Hz to 20 kHz $\pm$ 1 dB
Crosstalk between Channels:	Less than -75 dB at 8 kHz
Signal-to-noise Ratio:	More than 90 dB
Total Harmonic Distortion:	Less than 0.05 % at reference level

General	
Power Requirements:	AC 100 to 240 V, 50/60 Hz
Power Consumption:	25 W
Dimensions:	424 (W) x 44 (H) x 350 (D) mm (16 <sup>3</sup> / <sub>4</sub> x 1 <sup>3</sup> / <sub>4</sub> x 13 <sup>7</sup> / <sub>8</sub> inches)
Mass:	5 kg (11 lb)

Supplied Accessories	
Operation manual (1)	
Installation manual (1)	
Rack mounting plate (factory-installed, 2)	

## Rear Panel



• The optional BKAM-101 and BKAM-103 are installed in the AMS-100.

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## Distributed by





## Features

- ◆ Optional input boards for analog, AES/EBU and SDI-embedded audio
- ◆ Headphone and line outputs
- ◆ Low magnetic field speakers

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## Overview

The AMS-100 is an audio monitor speaker with a built-in stereo amplifier and speakers.

Three optional input boards are available:

- BKAM-101 analog input board

- BKAM-102 AES/EBU input board

- BKAM-103 SDI input board for audio embedded in an SDI signal

At least one of these input boards is required for the AMS-100 to operate.

A stereo headphone output and a stereo analog line-level output are provided.

The built-in speakers have a low external magnetic field to allow installation adjacent to picture monitors or other sensitive equipment.

The AMS-100 mounts in a standard 19-inch rack and is 1U high.

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# AUDIO MONITOR SPEAKER



Rear Panel

## Specifications

Parallel remote control interface	TTL level, 10 k $\Omega$ , unbalanced, D-sub 25-pin (1)
Monitor output: (via Remote connector)	2 ch, +4 dBm, +24 dBm max., 600 $\Omega$
Built-in speaker output	2 W + 2 W
Headphone output	12 dBu at 8 $\Omega$
Frequency response	20 Hz to 20 kHz $\pm$ 1 dB
Crosstalk between channels	More than 60 dB at 8 kHz
Signal-to-noise ratio	More than 84 dB
T.H.D.	Less than 0.05 % at reference level

### General

Power requirement	AC 100 to 240 V, 50/60 Hz
Power consumption	25 W
Operating temperature	5 °C to 40 °C (41 °F to 104 °F)
Dimensions	424 x 44 x 350 mm (16 <sup>3</sup> / <sub>4</sub> x 1 <sup>3</sup> / <sub>4</sub> x 13 <sup>7</sup> / <sub>8</sub> inches) (w/h/d)
Mass	5 kg (11 lb) maximum

### Supplied accessories

19-inch rack-mount adaptor (1)
Operation manual (1)
Installation manual (1)

## Ordering Information

- \* AMS-100 Audio Monitor Speaker
- \* BKAM-101 Analog Module
- \* BKAM-102 AES/EBU Module
- \* BKAM-103 SDI Module
- \* ECD-3C (3 m)/10C (10 m)/30C (30 m) XLR-3-pin–XLR-3-pin Digital Audio Interface Cable

**SONY®**

# VDC-C5 (5 m)

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## 12-PIN – 12-PIN BETACAM DUBBING CABLE

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VDC-C5 (5 m)

